

Attorney Docket No: IDF 1595 (4000-04000)

Patent

LISTING OF THE CLAIMS:

1. (Currently Amended) A computer-implemented method for testing and monitoring applications, the method comprising:

(a) sending a first test signal to elicit a response from a first element of an application authentication and authorization system;

(b) monitoring the authentication and authorization system application for the response to the first test signal;

(c) checking the response to the first test signal;

(d) sending a second test signal to elicit a response from a second element of the authentication and authorization system application, wherein the second element is independent and distinct from the first element;

(e) monitoring the application authentication and authorization system for the response to the second test signal;

(f) checking the response to the second test signal; and

(g) reporting the results of checking the responses to the first and second test signals;

wherein one of the first and second elements is an access server and wherein the other of the first and second elements is a register server.

Attorney Docket No: IDF 1595 (4000-04000)

Patent

2. (Previously Presented) The computer implemented method of claim 1, wherein the application is monitored in b) and e) by a monitoring program; wherein monitoring in b) and e) further comprises monitoring the time at which the test signal is sent and monitoring a response time from the sending of the test signal to the receiving of the response from that test signal; wherein the results comprise the response time from the sending of one of the test signals to the receiving of the response to that test signal by the monitoring program and the time at which that test signal was sent.

3. (Original) The computer-implemented method of claim 1, wherein reporting the results comprises sending notification based on the presence of predefined results.

4. (Original) The computer-implemented method of claim 3, wherein sending notification comprises sending a page.

5. (Original) The computer-implemented method of claim 3, wherein sending notification comprises sending an e-mail.

6. (Original) The computer-implemented method of claim 1, wherein reporting the results comprises recording the results in a datastore.

Attorney Docket No: IDF 1595 (4000-04000)

Patent

7. (Original) The computer-implemented method of claim 6, wherein recording the results in a datastore comprises storing the results in a text file.

8. (Original) The computer-implemented method of claim 6, wherein recording the results in a datastore comprises storing the results in a relational database.

9. (Original) The computer implemented method of claim 1, wherein reporting the results comprises:

 sending notification based on the presence of predefined results; and
 recording the results in a datastore.

10. (Canceled)

11. (Currently Amended) A computer-implemented method for testing and monitoring applications, the method comprising:

(a) sending a first test signal to elicit a response via a first channel of a messaging service;

(b) monitoring the messaging service for the response to the first test signal;

(c) checking the response to the first test signal;

(d) sending a second test signal to elicit a response via a second channel of the messaging service, wherein the second channel is independent and distinct from the

Attorney Docket No: IDF 1595 (4000-04000)

Patent

first channel;

(e) monitoring the messaging service for the response to the second test signal;

(f) checking the response to the second test signal; and

(g) reporting the results of checking the responses to the first and second test signals; The computer-implemented method of claim 10, wherein the application is a messaging service,

wherein one of the first and second channels is a send channel, and wherein the other of the first and second channels is a receive channel.

12. (Currently Amended) A computer-implemented method for testing and monitoring applications, the method comprising:

(a) sending a first test signal to elicit a response via a first channel of a publish/subscribe service;

(b) monitoring the publish/subscribe service for the response to the first test signal;

(c) checking the response to the first test signal;

(d) sending a second test signal to elicit a response via a second channel of the publish/subscribe service, wherein the second channel is independent and distinct from the first channel;

(e) monitoring the publish/subscribe service for the response to the second test signal;

Attorney Docket No: IDF 1595 (4000-04000)

Patent

(f) checking the response to the second test signal; and

(g) reporting the results of checking the responses to the first and second test signals;

~~The computer implemented method of claim 10, wherein the application is a publish/subscribe service,~~ wherein one of the first and second channels is a publish channel, and wherein the other of the first and second channels is a subscribe channel.

13. (Currently Amended) A computer-implemented method for testing and monitoring applications, the method comprising:

(a) sending a first test signal to elicit a response from a first object of a CORBA-compliant transaction service an application;

(b) monitoring the CORBA-compliant transaction service application for the response to the first test signal;

(c) checking the response to the first test signal;

(d) sending a second test signal to elicit a response from a second object of the CORBA-compliant transaction service application, wherein the second object is independent and distinct from the first object;

(e) monitoring the CORBA-compliant transaction service application for the response to the second test signal;

(f) checking the response to the second test signal; and

(g) reporting the results of checking the responses to the first and second test signals;

Attorney Docket No: IDF 1595 (4000-04000)

Patent

wherein the first object is an OTS daemon and wherein the second object is a completion daemon.

14. (Currently Amended) A computer-implemented method for testing and monitoring applications, the method comprising:

(a) sending a first test signal to elicit a response from a first object of a naming service;

(b) monitoring the naming service for the response to the first test signal;

(c) checking the response to the first test signal;

(d) sending a second test signal to elicit a response from a second object of the naming service, wherein the second object is independent and distinct from the first object;

(e) monitoring the naming service for the response to the second test signal;

(f) checking the response to the second test signal; and

(g) reporting the results of checking the responses to the first and second test signals;

~~The computer-implemented method of claim 13, wherein the application is a naming service;~~ wherein the one of the first and second objects is a register object; and wherein the other of the first and second objects is a resolve object.

Attorney Docket No: IDF 1595 (4000-04000)

Patent

15. (Currently Amended) The computer-implemented method of claim 13, ~~wherein the application is a CORBA-compliant transaction service; wherein the first object is an OTS daemon; wherein the second object is a completion daemon and~~ further comprising;

- (a) sending a third test signal to elicit a response from a recovery daemon;
- (b) monitoring the CORBA-compliant transaction service application for the response to the first test signal;
- (c) checking the response to the third test signal;
- (d) sending a fourth test signal to elicit a response from a transaction daemon;
- (e) monitoring the CORBA-compliant transaction service application for the response to the fourth test signal;
- (f) checking the response to the fourth test signal;

wherein reporting the results of checking the responses to the first and second test signals comprises reporting the results of checking the responses to the first, second, third, and fourth test signals; and wherein the sending of the first through fourth test signals may occur in any order.

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

Attorney Docket No: IDF 1595 (4000-04000)

Patent

19. (Previously Presented) A computer-implemented method for testing and monitoring applications, the method comprising:

- (a) sending a first test signal via a send channel of a messaging service to elicit a response;
- (b) monitoring the messaging service for the response to the first test signal;
- (c) checking the response to the first test signal;
- (d) sending a second test signal via a receive channel of the messaging service to elicit a response;
- (e) monitoring the messaging service for the response to the second test signal;
- (f) checking the response to the second test signal; and
- (g) reporting the results of checking the responses to the first and second test signals.

20. (Previously Presented) The computer-implemented method of claim 19, wherein the order of sending the test signals is selected from one of the group consisting of:
the first test signal is sent prior to the sending of the second test signal;
the second test signal is sent prior to the first test signal; and
the first and second test signal are sent approximately simultaneously.

Attorney Docket No: IDF 1595 (4000-04000)

Patent

21. (Currently Amended) A computer-implemented method for testing and monitoring applications, the method comprising:

- (a) sending a first test signal via a publish channel of a publish/subscribe service to elicit a response;
- (b) monitoring the publish/subscribe service for the response to the first test signal;
- (c) checking the response to the first test signal;
- (d) sending a second test signal via a subscribe channel of the publish/subscribe service to elicit a response;
- (e) monitoring the ~~application~~ publish/subscribe service for the response to the second test signal;
- (f) checking the response to the second test signal; and
- (g) reporting the results of checking the responses to the first and second test signals.

22. (Previously Presented) The computer-implemented method of claim 21, wherein the order of sending the test signals is selected from one of the group consisting of:

the first test signal is sent prior to the sending of the second test signal;

the second test signal is sent prior to the first test signal; and

the first and second test signal are sent approximately simultaneously.

Attorney Docket No: IDF 1595 (4000-04000)

Patent

23. (Previously Presented) A computer-implemented method for testing and monitoring applications, the method comprising:

- (a) sending a first test signal to elicit a response from a register object of a naming service;
- (b) monitoring the naming service for the response to the first test signal;
- (c) checking the response to the first test signal;
- (d) sending a second test signal to elicit a response from a resolve object of the naming service;
- (e) monitoring the naming service for the response to the second test signal;
- (f) checking the response to the second test signal; and
- (g) reporting the results of checking the responses to the first and second test signals.

24. (Previously Presented) The computer-implemented method of claim 23, wherein the order of sending the test signals is selected from one of the group consisting of:
the first test signal is sent prior to the sending of the second test signal;
the second test signal is sent prior to the first test signal; and
the first and second test signal are sent approximately simultaneously.

Attorney Docket No: IDF 1595 (4000-04000)

Patent

25. (Previously Presented) A computer-implemented method for testing and monitoring applications, the method comprising:

(a) sending a first test signal to elicit a response from an access server of an authentication and authorization system;

(b) monitoring the authentication and authorization system for the response to the first test signal;

(c) checking the response to the first test signal;

(d) sending a second test signal to elicit a response from a register server of the authentication and authorization system;

(e) monitoring the authentication and authorization system for the response to the second test signal;

(f) checking the response to the second test signal; and

(g) reporting the results of checking the responses to the first and second test signals.

26. (Previously Presented) The computer-implemented method of claim 23, wherein the order of sending the test signals is selected from one of the group consisting of:

the first test signal is sent prior to the second test signal;

the second test signal is sent prior to the first test signal; and

the first and second test signal are sent approximately simultaneously.

Attorney Docket No: IDF 1595 (4000-04000)

Patent

27. (Previously Presented) A computer-implemented method for testing and monitoring applications, the method comprising:

(a) sending a first test signal to elicit a response from a first object of a transaction service, wherein the first object is selected from a first member of the group consisting essentially of: an OTS daemon, a completion daemon, a recovery daemon, and a transaction daemon;

(b) monitoring the transaction service for the response to the first test signal;

(c) checking the response to the first test signal;

(d) sending a second test signal to elicit a response from a second object of the transaction service, wherein the second object is selected from a second member of the group consisting essentially of: an OTS daemon, a completion daemon, a recovery daemon, and a transaction daemon;

(e) monitoring the transaction service for the response to the second test signal;

(f) checking the response to the second test signal; and

(g) reporting the results of checking the responses to the first and second test signals.

28. (Currently Amended) The computer-implemented method of claim 27, further comprising:

(h) sending a third test signal to elicit a response from a third object of the transaction service, wherein the third object is selected from a third member of the group

Attorney Docket No: IDF 1595 (4000-04000)

Patent

consisting essentially of: an OTS daemon, a completion daemon, a recovery daemon, and a transaction daemon;

(i) monitoring the ~~application~~ transaction service for the response to the third test signal;

(j) checking the response to the third test signal; and

wherein reporting the results of checking the responses to the first and second test signals comprises reporting the results of checking the responses to the first, second and third test signals; and wherein the sending of the first through third test signals may occur in any order.

29. (Currently Amended) The computer-implemented method of claim 28, further comprising:

(k) sending a fourth test signal to elicit a response from a fourth object of the transaction service, wherein the fourth object is the remaining member of the group consisting essentially of: an OTS daemon, a completion daemon, a recovery daemon, and a transaction daemon;

(l) monitoring the transaction service ~~application~~ for the response to the fourth test signal;

(m) checking the response to the fourth test signal; and

wherein reporting the results of checking the responses to the first, second, and third test signals comprises reporting the results of checking the responses to the first, second, third, and fourth test signals; and wherein the sending of the first through fourth test signals may occur in any order.

Attorney Docket No: IDF 1595 (4000-04000)

Patent

30. (Previously Presented) The computer-implemented method of claim 29, wherein the transaction service is a CORBA-compliant transaction service.

31. (New) The computer implemented method of claim 19, wherein the application is monitored in b) and e) by a monitoring program; wherein monitoring in b) and e) further comprises monitoring the time at which the test signal is sent and monitoring a response time from the sending of the test signal to the receiving of the response from that test signal; wherein the results comprise the response time from the sending of one of the test signals to the receiving of the response to that test signal by the monitoring program and the time at which that test signal was sent.

32. (New) The computer implemented method of claim 21, wherein the application is monitored in b) and e) by a monitoring program; wherein monitoring in b) and e) further comprises monitoring the time at which the test signal is sent and monitoring a response time from the sending of the test signal to the receiving of the response from that test signal; wherein the results comprise the response time from the sending of one of the test signals to the receiving of the response to that test signal by the monitoring program and the time at which that test signal was sent.

Attorney Docket No: IDF 1595 (4000-04000)

Patent

33. (New) The computer implemented method of claim 23,
wherein the application is monitored in b) and e) by a monitoring program;
wherein monitoring in b) and e) further comprises monitoring the time at which the test signal is
sent and monitoring a response time from the sending of the test signal to the receiving of the
response from that test signal;
wherein the results comprise the response time from the sending of one of the test signals to the
receiving of the response to that test signal by the monitoring program and the time at which that
test signal was sent.

34. (New) The computer implemented method of claim 25,
wherein the application is monitored in b) and e) by a monitoring program;
wherein monitoring in b) and e) further comprises monitoring the time at which the test signal is
sent and monitoring a response time from the sending of the test signal to the receiving of the
response from that test signal;
wherein the results comprise the response time from the sending of one of the test signals to the
receiving of the response to that test signal by the monitoring program and the time at which that
test signal was sent.

Attorney Docket No: IDF 1595 (4000-04000)

Patent

35. (New) The computer implemented method of claim 27,
wherein the application is monitored in b) and e) by a monitoring program;
wherein monitoring in b) and e) further comprises monitoring the time at which the test signal is
sent and monitoring a response time from the sending of the test signal to the receiving of the
response from that test signal;
wherein the results comprise the response time from the sending of one of the test signals to the
receiving of the response to that test signal by the monitoring program and the time at which that
test signal was sent.